

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/734,875 12/12/2003

Futoshi Nakano

5616-0081

1041

PAPER NUMBER

12/06/2004

McCormick, Paulding & Huber, LLP

CityPlace II 185 Asylum Street Hartford, CT 06103-3402

EXAMINER HOANG, JOHNNY H

ART UNIT 3747

DATE MAILED: 12/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
	Office Action Summary	10/734,875	NAKANO ET AL.	
		Examiner	Art Unit	
	Ti MANUAL TI	Johnny H. Hoang	3747	
The MAILING DATE of this communication appears on the cover sheet with the correspondence addr Period for Reply			correspondence address	
	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).			
	Status			
	1) Responsive to communication(s) filed on <u>12 December 2003</u> .			
	2a) This action is FINAL . 2b) This action is non-final.			
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is			
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
	Disposition of Claims			
	4) Claim(s) 1-12 is/are pending in the application.			
	4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.			
	6)⊠ Claim(s) <u>1</u> is/are rejected.			
	7)⊠ Claim(s) <u>2-12</u> is/are objected to.			
	8) Claim(s) are subject to restriction and/or election requirement.			
	Application Papers			
	9)☐ The specification is objected to by the Examiner.			
	10) \boxtimes The drawing(s) filed on <u>12 December 2003</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
	Priority under 35 U.S.C. § 119			
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
	a)⊠ All b)□ Some * c)□ None of:			
	1. Certified copies of the priority documents have been received.			
	2. Certified copies of the priority documents have been received in Application No			
	3. Copies of the certified copies of the priority documents have been received in this National Stage			
	application from the International Bureau (PCT Rule 17.2(a)).			
.	* See the attached detailed Office action for a list of the certified copies not received.			
	•			
	Attachment(s)			
	1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Pager No(s)(Mail Date			
	P) Notice of Draftsperson's Patent Drawing Review (PTO-948) Disciplification Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Dat 5) Notice of Informal Pa	e tent Application (PTO-152)	
	Paper No(s)/Mail Date <u>12/12/03</u> .	6) Other:		
u.s PT	Patent and Trademark Office OL-326 (Rev. 1-04) Office Action	on Summary Part	of Paper No./Mail Date 20041129	

Application/Control Number: 10/734,875

Art Unit: 3747

DETAILED ACTION

Inventorship

1. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Kim (US 6,526,346 B2).

- Application/Control Number: 10/734,875

Art Unit: 3747

Page 3

Regarding claim 1, the reference of Kim discloses a method for controlling a diesel engine including the following subject matters: injection quantity determination means for determining the required fuel injection quantity based on the accelerator opening degree and engine revolution speed (col. 3, lines 19-24), the device comprising control (20) means for conducting a minimum cut-off control such that at the time the injection is to be restarted after fuel injection has been cut-off for the predetermined time, the fuel injection cut-off is continued when the required injection quantity determined by said injection quantity determination means is less than the prescribed minute injection quantity, and the fuel injection is restarted when the required injection quantity is equal to the prescribed minute injection quantity or larger, this restart being made with the required injection quantity attained at this time (col. 3, line 42 through col. 4, line 53).

Allowable Subject Matter

4. Claims 2-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Application/Control Number: 10/734,875

Art Unit: 3747

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. The copies of U.S Patent are provided.

Morimoto et al (US 6,763,903 B2).

6. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Johnny H. Hoang whose telephone number is (571) 272-4843. The

examiner can normally be reached on Monday - Thursday (7:00Am-5: 30Pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Henry Yuen can be reached on (571) 272-4856. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JHH

November 29, 2004

Johnny H. Hoang Examiner Art Unit 3747

Page 4

Willis R. Wolfe Primary Examiner

Ar+ Un+ 3747